

## AMENDMENTS TO THE CLAIMS

Claims 1-46: (Canceled)

47. (Currently Amended) A peptide nucleic acid with at least one electron transfer moiety covalently attached to the  $\alpha$ -carbon of a monomeric subunit.

48. (Currently amended) A peptide nucleic acid according to claim 47 with at least one electron transfer moiety covalently attached to an internal monomeric subunit of the peptide nucleic acid.

49. (Currently amended) A peptide nucleic acid with at least one electron transfer moiety covalently attached to a base of an internal monomeric subunit of the peptide nucleic acid.

50-51. (Canceled)

52. (Currently Amended) A composition according to claim 47 or 49 wherein said electron transfer moiety is an electrode.

53. (Currently Amended) A composition according to claim 47 or 49 wherein said electron transfer moiety is a transition metal complex.

Claims 54-59. (Canceled)

60. (Currently Amended) A composition according to claim 53 wherein said transition metal complex is a metallocene.

61. (Currently Amended) A composition according to claim 54 wherein said metallocene is a ferrocene.